

# DELPHION



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Title: JP63141001A2: PRODUCTION OF PLASTIC LENS

Derwent Title: Plastic lens mfr. - by applying polyurethane resin soln. to lens substrate, heating, applying primer layer and hardener layer, etc. [Derwent Record]

Country: JP Japan  
Kind: A (See also: JP06079084B4)

Inventor: SAKAMOTO TAKESHI;  
HIROSE SHIGEKI;  
SUGIMURA MITSUO;

Assignee: HOYA CORP  
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Published / Filed: 1988-06-13 / 1986-12-04

Application Number: JP1986000287680

IPC Code: Advanced: G02B 1/04; G02B 1/10;  
Core: more...

IPC-7: G02B 1/04; G02B 1/10;

Priority Number: 1986-12-04 JP1986000287680

Abstract:

PURPOSE: To impart superior impact resistance to a plastic lens by forming a primer layer by coating polyurethane resin soln. on the surface of a substrate of the plastic lens and heat treating the coated layer, providing further a hardened layer comprising silicone resin, then forming an antireflection film by the vapor deposition of an inorg. material.

CONSTITUTION: A primer layer having 0.01W30µm film thickness is formed by coating polyurethane resin soln. on the surface of a substrate of plastic lens and heat treating the coated film. Then, a hardened layer comprising silicone resin is formed, and a single layered or multilayered antireflection film is formed on its surface by the vapor deposition of an inorg. material. Particularly preferred film thickness of the primer layer is 1W20µm. If the film thickness is <0.01µm, the improving effect for the



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impact resistance is insufficient. If it exceeds 30µm, the precision of the coated lens surface is inferior. By this constitution, a plastic lens having extremely superior appearance, abrasion resistance, scratch resistance, adhesion as well as impact resistance is obtd.  
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None

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Legal Status:


Family:

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<input checked="" type="checkbox"/>	JP06079084B4	1994-10-05	1986-12-04	
2 family members shown above				

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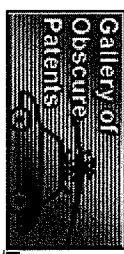
Forward References:

Buy PDF	Patent	Pub. Date	Inventor	Assignee	Title
<input checked="" type="checkbox"/>	US7128414	2006-10-31	Muisener, Richard	Essilor International Compagnie Generale d'Optique	Methods for coating lenses
<input checked="" type="checkbox"/>	USRE39343	2006-10-17	Kagei, Kazunori	Asahi Lite Optical Co., Ltd.	Plastic lenses for spectacles with high refractive indices
<input checked="" type="checkbox"/>	US6986857	2006-01-17	Klemm, Karl Arthur	Essilor International Compagnie Generale D'Optique	Method for preparing a mold part useful for transferring a coating onto an optical substrate
<input checked="" type="checkbox"/>	US6919134	2005-07-19	Mitsuishi, Takeshi	HOYA Corporation	Optical element having antireflection film
<input checked="" type="checkbox"/>	US6911055	2005-06-28	Baillet, Gilles	Essilor International Compagnie General d'Optique	Method for coloring a transparent article made of polycarbonate and resulting article
<input checked="" type="checkbox"/>	US6890458	2005-05-10	Weber, Steven	Essilor International Compagnie General d'Optique	Method for forming on-site a coated optical article
<input checked="" type="checkbox"/>	US6887402	2005-05-03	Klemm, Karl A.	Essilor International Compagnie General d'Optique	Method for transferring from a mold a hydrophobic top coat onto an optical substrate
<input checked="" type="checkbox"/>	US6680125	2004-01-20	Sasaki, Kunio	Hoya Corporation	Coating composition and method for preparing the same, and scuff-resistant plastic lense
<input checked="" type="checkbox"/>	US6391433	2002-05-21	Jiang, Jian	Hoya Corporation	Coating composition and thin film layer for optical parts
<input checked="" type="checkbox"/>	US6248431	2001-06-19	Jiang, Jian	Hoya Corporation	Coating composition for optical parts thin film layer made of it and optical part comprising
<input checked="" type="checkbox"/>	US6070979	2000-06-06	Kagei, Kazunori	Asahi Lite Optical Co., Ltd.	Plastic lenses for spectacles with high refractive indices
<input checked="" type="checkbox"/>	US6051310	2000-04-18	Cano, Jean Paul	Essilor International-Compagnie Generale D'Optique	Ophthalmic lens made of organic glass with a shockproof intermediate layer, and method for making same

	<a href="#">US5693366</a>	<a href="#">1997-12-02</a>	<a href="#">Mase, Shoji</a>	<a href="#">Nippon Sheet Glass Co., Ltd.</a>	<a href="#">Process for producing plastic lens comprising a primer layer, a hard coat layer and an antireflection coating</a>
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Other Abstract Info:

[DERABS C88-202501](#) [DERC88-202501](#)



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